

## ABSTRACT OF THE DISCLOSURE

The present invention provides a line head for ink-jet printer capable of accomplishing a printing of high density and high quality, capable of achieving a high productivity with a simple construction, and capable of printing with multicolor inks (five colors or more). The line head for ink-jet printer comprises ink nozzle 5, ink passages 6, ink chambers 7, and a piezoelectric element 4 of ferroelectric substance for changing a capacity of the ink chambers to jet an ink from the ink nozzles through said ink passages, and in which a silicon substrate 1 is employed as a substrate on which the ink nozzles and ink passages are formed. A thin film of ferroelectric substance of said piezoelectric element is formed by applying a fine patterning to a gel thin film of ferroelectric substance which is obtained by introducing a photosensitive group into a precursor sol of ferroelectric substance formed by sol-gel method and by applying the precursor sol to a base.